

**EOG Resources, Inc.**  
**P.O. Box 250**  
**Big Piney, WY 83113**

December 13, 2000

Utah Division of Oil, Gas, & Mining  
1594 West North Temple  
Box 145801  
Salt Lake City, UT 84114-5801

RE: APPLICATION FOR PERMIT TO DRILL  
NORTH DUCK CREEK 133-31  
SE/4NE/4, SEC. 31, T8S, R21E  
UINTAH COUNTY, UTAH  
LEASE NO.: U-24230  
UTE TRIBAL LANDS

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter  
P.O. Box 1910  
Vernal, UT 84078  
Phone: (435)789-4120  
Fax: (435)789-1420

Sincerely,



Ed Trotter  
Agent  
EOG Resources, Inc.

Attachments

UDOGM-BLM-EOG

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DIVISION OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0136

<b>APPLICATION FOR PERMIT TO DRILL OR DEEPEN</b>		5. Lease designation and serial number U-24230
1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		6. If Indian, Allottee or Tribe name UTE INDIAN TRIBE
b. TYPE OF WELL Oil <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Well <input type="checkbox"/> Well <input checked="" type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator EOG RESOURCES, INC.		8. Farm or lease name, well no. NORTH DUCK CREEK
3. Address and Telephone Number P.O. BOX 1815, VERNAL, UT 84078 (435)789-0790		9. API Well No. NORTH DUCK CREEK 133-31
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 1882' FNL & 467' FEL SE/NE At proposed prod. Zone 4437547N 620357E		10. Field and pool, or wildcat NORTH DUCK CREEK <i>Natural Buttes</i>
14. Distance in miles and direction from nearest town or post office 4.5 MILES SOUTHEAST OF FORT DUCHESNE, UTAH		11. Sec., T., R., M., or BLK. and survey or area SEC. 31, T8S, R21E
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any) 467'	16. No. of acres in lease 1555.87	12. County or parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.	19. Proposed depth 7360'	13. State UTAH
21. Elevations (show whether DF, RT, GR, etc.) 4679.4 FEET GRADED GROUND		17. No. of acres assigned to this well
22. Approx. date work will start JANUARY 2001		20. Rotary or cable tools ROTARY

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24#	200' - 220'	100-150 SX CLASS "G" + 2%
or 12 1/4"	9 5/8"	32.30#	200 - 220'	CaCl2 + 1/4 #/SX CELLOFLAKE.
7 7/8"	4 1/2"	10.50#	7360'	50/50 POXMIX + 2% GEL + 10%

SEE ATTACHMENTS FOR:

8 POINT PLAN  
BOP SCHEMATIC  
SURFACE USE AND OPERATING PLAN  
LOCATION PLAT  
LOCATION LAYOUT  
TOPOGRAPHIC MAPS "A", "B", AND "C"  
GAS SALES PIPELINE—MAP "D"  
FACILITY DIAGRAM

EOG RESOURCES, INC. WILL BE THE DESIGNATED OPERATOR OF THE SUBJECT WELL UNDER BOND #NM 2308

*Federal Approval of this Action is Necessary*

Pc: UTAH DIVISION OF OIL, GAS, AND MINING  
BUREAU OF INDIAN AFFAIRS

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED [Signature] TITLE Agent DATE 12-7-2000

(This space for Federal or State office use)

PERMIT NO. 43-047-33827

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

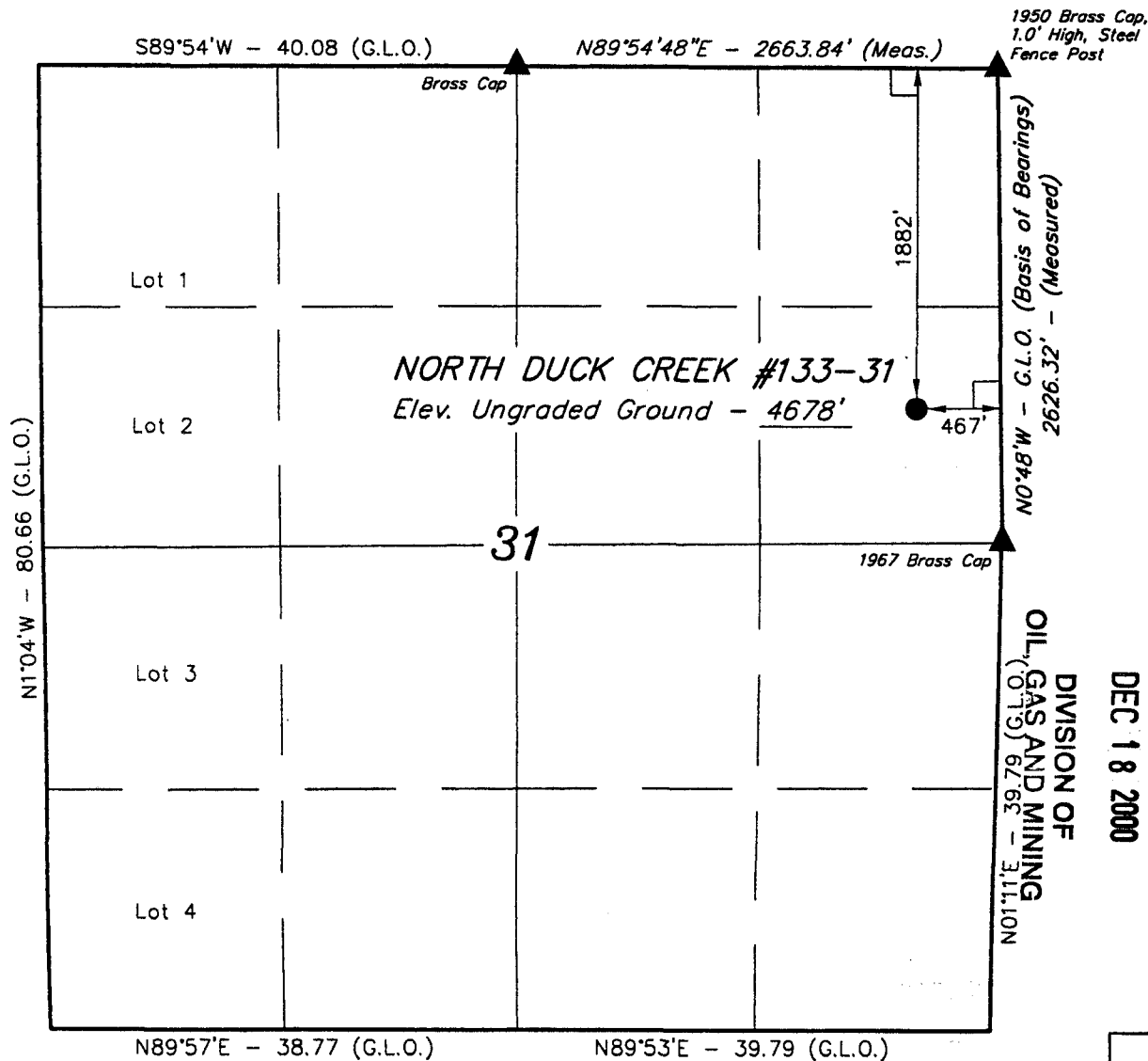
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE BRADLEY G. HILL DATE 12/26/00

RECLAMATION SPECIALIST III

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**T8S, R21E, S.L.B.&M.**

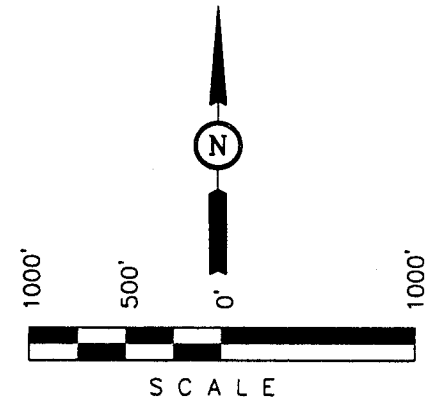


**EOG RESOURCES, INC.**

Well location, NORTH DUCK CREEK #133-31, located as shown in the SE 1/4 NE 1/4 of Section 31, T8S, R21E, S.L.B.&M. Uintah County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION LOCATED AT THE NORTHEAST CORNER OF SECTION 31, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4753 FEET.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert J. Cox*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161519  
 STATE OF UTAH

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**LEGEND:**

- └─ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

LATITUDE = 40°04'54"  
 LONGITUDE = 109°35'18"

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 5-31-00	DATE DRAWN: 6-12-00
PARTY D.L.K. E.O. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE EOG RESOURCES, INC.	

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 133-31**

**SE/NE, SEC. 31, T8S, R21E**

**UINTAH COUNTY, UTAH**

**1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:**

FORMATION	DEPTH	TYPE ZONES	MAXIMUM PRESSURE
Green River	2160		
Oil Shale	2160		
"H" Marker	3885		
"J" Marker	4700		
Base "M" Marker	5230		
Wasatch	5660		
Peters Point	5660	GAS	
Chapita Wells	6375	GAS	
Buck Canyon	7155	GAS	
EST. TD	7360	Anticipated BHP 3200 PSI	

**3. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.**

**4. CASING PROGRAM:**

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>MINIMUM SAFETY FACTOR</u>		
							<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
11	0' - 220'	200' - 220'	8 5/8	24.0 #	J-55	ST&C	1370 PSI	2950 PSI	263,000#
or									
12 1/4	0' - 220'	200' - 220'	9 5/8	32.3 #	H-40	ST&C	1370 PSI	2270 PSI	254,000#
7 7/8	0' - 7360'	7360'	4 1/2	10.5 #	J-55	ST&C	4010 PSI	4790 PSI	146,000#

If conductor drive pipe is used, it will be left in place if its total length is less than 20 feet below the surface. If the total length of the drive pipe is equal to or greater than 20 feet, it will be pulled prior to cementing surface casing, or it will be cemented in place. The minimum diameter of the conductor drive pipe will be 13 3/8".

All casing will be new or inspected.

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## EIGHT POINT PLAN

### NORTH DUCK CREEK 133-31 SE/NE, SEC. 31, T8S, R21E UINTAH COUNTY, UTAH

#### 5. MUD PROGRAM

##### INTERVAL

0' - 220'  
240' - 4000'  
4000' - TD

##### MUD TYPE

Air  
Air/Mist & Aerated Water  
Air/3% KCL water or KCL substitute

Lost circulation probable from 1500' to 3000' +/-.

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

#### 6. VARIANCE REQUESTS:

- A. EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line (Where possible, a straight run blooie line will be used).
- B. EOG Resources, Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line. (Not required on aerated water system).
- B. EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be 75' in length.

#### 7. EVALUATION PROGRAM:

Logs: Schlumberger Platform Express  
          HALS-GR-Cal  
          FDC-CNL-GR-Cal-PE

T.D. to base of surface casing  
T.D. to 4800'

Cores: None Programmed  
DST: None Programmed

Completion: To be submitted at a later date.

Note: If hole conditions prevent the running of open hole logs, a cased hole Dipole Sonic/Neutron/Gr will be run in lieu of open hole logs.

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**EIGHT POINT PLAN**

**NORTH DUCK CREEK 133-31**  
**SE/NE, SEC. 31, T8S, R21E**  
**UINTAH COUNTY, UTAH**

**8. ABNORMAL CONDITIONS:**

None anticipated.

**9. STANDARD REQUIRED EQUIPMENT:**

- A. Choke Manifold
- B. Kelly Clock
- C. Stabbing Valve
- D. Visual Mud Monitoring

**10. HAZARDOUS CHEMICALS:**

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

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# 3000 PSIG DIAGRAM

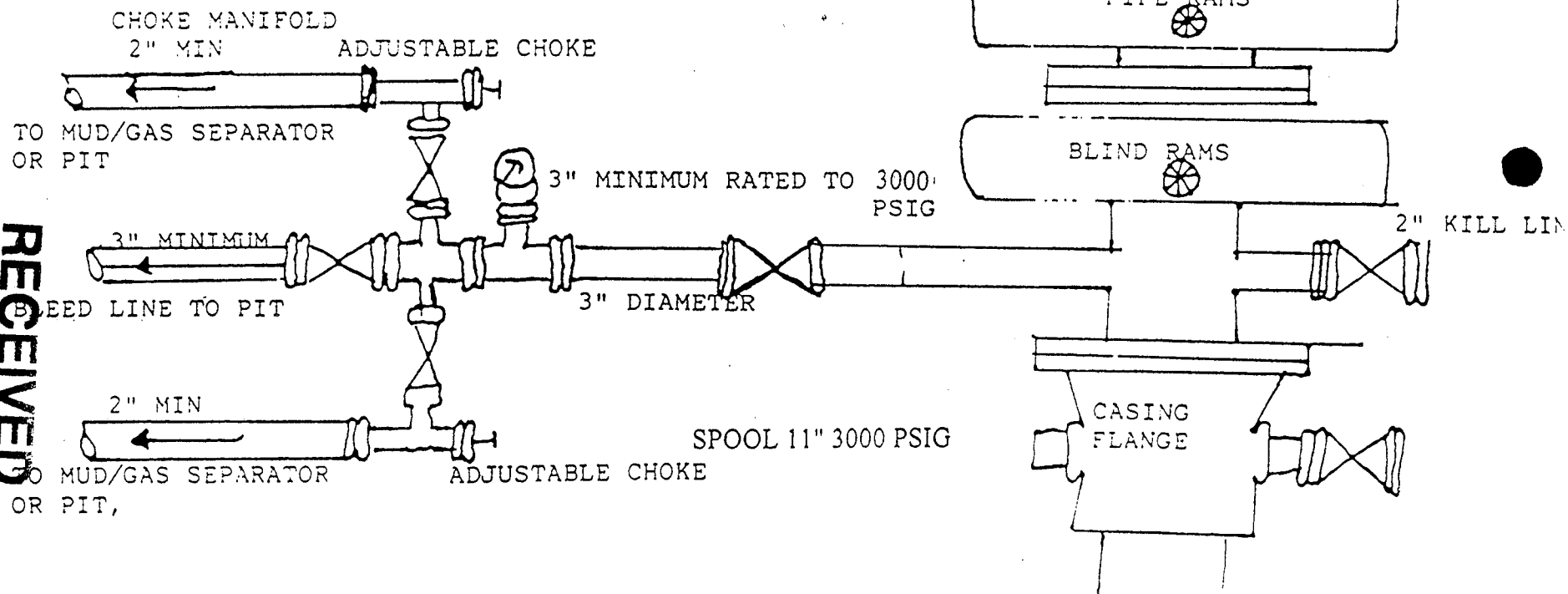
ANNULAR PREVENTOR AND BOTH RAMS ARE 3000 RATED.

CASING FLANGE IS 11" 3000 PSIG RATED.

BOPE 11" 3000 PSIG

## TESTING PROCEDURE:

1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind & Pipe rams will be tested to rated working pressure, 3000 psig
3. Annular preventor will be tested to 50% of working pressure, 1500 psig
4. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
5. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
6. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 3000 psig BOPE specifications.



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**CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL**

Company/Operator: EOG Resources, Inc.

Well Name & Number: North Duck Creek 133-31

Lease Number: U-24230

Location: 1882' FNL & 467' FEL, SE/NE, Sec. 31, T8S, R21E  
S.L.B.&M., Uintah County

Surface Ownership: Ute Indian Tribe

**NOTIFICATION REQUIREMENTS**

Location Construction - forty-eight (48) hours prior to construction  
of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice: - at least twenty-four (24) hours prior to  
spudding the well.

Casing String and  
Cementing - twenty-four (24) hours prior to running  
casing and cementing all casing strings.

BOP and related  
Equipment Tests - twenty-four (24) hours prior to running  
casing and tests.

First Production  
Notice - within five (5) business days after new  
well  
begins or production resumes after well  
has been off production for more than  
ninety (90) days.

For more specific details on notification requirements, please check the Conditions of  
Approval for Notice to Drill and Surface Use Program.

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drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, EOG Resources, Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

**3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION**

- A. Water wells - None
- B. Abandoned wells - None
- C. Temporarily abandoned wells - None
- D. Disposal wells - None
- E. Drilling wells - None
- F. Producing wells - 6\*
- G. Shut in wells - None
- H. Injection wells - None

(\*See attached TOPO map "C" for location)

**4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

**A. ON WELL PAD**

- 1. Tank batteries - None
- 2. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of well head valves, separator, dehy, 210 Bbl condensate tank, meter house, and attached piping.  
See attached facility diagram.
- 3. Oil gathering lines - None
- 4. Gas gathering lines - A 4 ½" gathering line will be buried from dehy to the edge of the location.
- 5. Injection lines - None
- 6. Disposal lines - None
- 7. Surface pits - None

**B. OFF WELL PAD**

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. A 41/2" OD steel above ground natural gas pipeline will be laid approximately 130' from proposed location to a point in the SE/NE of Section 31, T8S, R21E, where it will tie into Questar Pipeline Co.'s

drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, EOG Resources, Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. **LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION**

- A. Water wells - None
- B. Abandoned wells - None
- C. Temporarily abandoned wells - None
- D. Disposal wells - None
- E. Drilling wells - None
- F. Producing wells - 6\*
- G. Shut in wells - None
- H. Injection wells - None

(\*See attached TOPO map "C" for location)

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

A. **ON WELL PAD**

- 1. Tank batteries - None
- 2. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of well head valves, separator, dehy, 210 Bbl condensate tank, meter house, and attached piping.  
See attached facility diagram.
- 3. Oil gathering lines - None
- 4. Gas gathering lines - A 4 1/2" gathering line will be buried from dehy to the edge of the location.
- 5. Injection lines - None
- 6. Disposal lines - None
- 7. Surface pits - None

B. **OFF WELL PAD**

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. A 41/2" OD steel above ground natural gas pipeline will be laid approximately 130' from proposed location to a point in the SE/NE of Section 31, T8S, R21E, where it will tie into Questar Pipeline Co.

existing line. Proposed pipeline crosses BIA administered lands, thus a Right-of-Way grant will be required.

3. Proposed pipeline will be a 4 ½ " OD steel, welded line laid on the surface.
4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the East side of the location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

The required paint color is Carlsbad Canyon.

If at any time the facilities located on public land and authorized by the terms of the lease are no longer included in the lease (due to a construction in the unit or other lease or unit boundary change), the BIA will process a change in authorization to the appropriate rental or other financial obligation as determined by the authorized officer.

#### **5. LOCATION & TYPE OF WATER SUPPLY**

- A. Water supply will be from the Ouray Brine Plant at Ouray, Utah, and/or Target Trucking Inc.'s water source in the SW/SW, Sec. 35, T9S, R22E, Uintah County, Utah (State Water Right #49-1501). Produced water from the Chapita Wells and Stagecoach Units will also be used.
- B. Water will be hauled by Target Trucking Inc..
- C. No water well will be drilled on lease.

#### **6. SOURCE OF CONSTRUCTION MATERIAL**

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of the location.
- B. All construction material will come from Tribal Land.
- C. No mineral materials will be required.

## **7. METHODS OF HANDLING WASTE DISPOSAL**

### **A. METHODS AND LOCATION**

1. Cuttings will be confined in the reserve pit.
2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.
5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

#### **On BIA administered land:**

The reserve pit will be constructed so as not to leak, break, or allow discharge.

#### **The reserve pit shall be lined.**

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

## **8. ANCILLARY FACILITIES**

- A. No airstrips or camps are planned for this well.

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## 9. WELLSITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The reserve pit will be located on the Northwest corner of the location.  
The flare pit will be located downwind of the prevailing wind direction on the North side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the East side of the location.

Access to the well pad will be from the West.

N/A Diversion ditch(es) shall be constructed on the \_\_\_\_\_ side of the location (above/below) the cut slope, draining to the \_\_\_\_\_.

N/A Soil compacted earthen berm(s) shall be placed on the \_\_\_\_\_ side(s) of the location between the \_\_\_\_\_.

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons \_\_\_\_\_.

X Corner A will be rounded off to minimize excavation.

## FENCING REQUIREMENTS:

All pits will be fenced according to the following minimum standards:

- A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

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The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on Tribal land, or any fence between Tribal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

#### **10. PLANS FOR RESTORATION OF SURFACE**

##### **A. PRODUCING LOCATION**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 12 months from the date of well completion. Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

##### **B. DRY HOLE/ABANDONED LOCATION**

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BIA will attach the appropriate surface rehabilitation conditions of approval.

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## 11. SURFACE OWNERSHIP

Access road: Tribal

Location: Tribal

## 12. OTHER INFORMATION

- A. EOG Resources, Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site can be used.

-a time frame for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs.

The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, EOG Resources, Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA, or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to

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make arrangements for permanent storage on commercial facilities. (The BIA does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs.)

**Additional Surface Stipulations**

- N/A No construction or drilling activities shall be conducted between \_\_\_\_\_ and \_\_\_\_\_ because of \_\_\_\_\_.
- N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.
- N/A No construction or exploration activities are permitted within a 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.
- N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).
- N/A No cottonwood trees will be removed or damaged.
- N/A Pond will be constructed according to BIA specifications approximately \_\_\_\_\_ feet \_\_\_\_\_ of the location, as flagged on the onsite.

**LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION**

EOG Resources, Inc.	EOG Resources, Inc.	Ed Trotter
P.O. Box 250	P.O. Box 1815	P.O. Box 1910
Big Piney, WY 83113	Vernal, UT 84078	Vernal, UT 84078
Jim Schaefer	George McBride	Telephone: (435)789-4120
Telephone (307)276-3331	Telephone (435)789-0790	Fax: (435)789-1420

All lease or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. EOG Resources, Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA office shall be notified upon site completion prior to moving on the drilling rig.

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DEC 18 2000  
DIVISION OF  
OIL, GAS AND MINING



### Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

12-7-2000  
Date

  
Agent

**RECEIVED**

**DEC 18 2000**

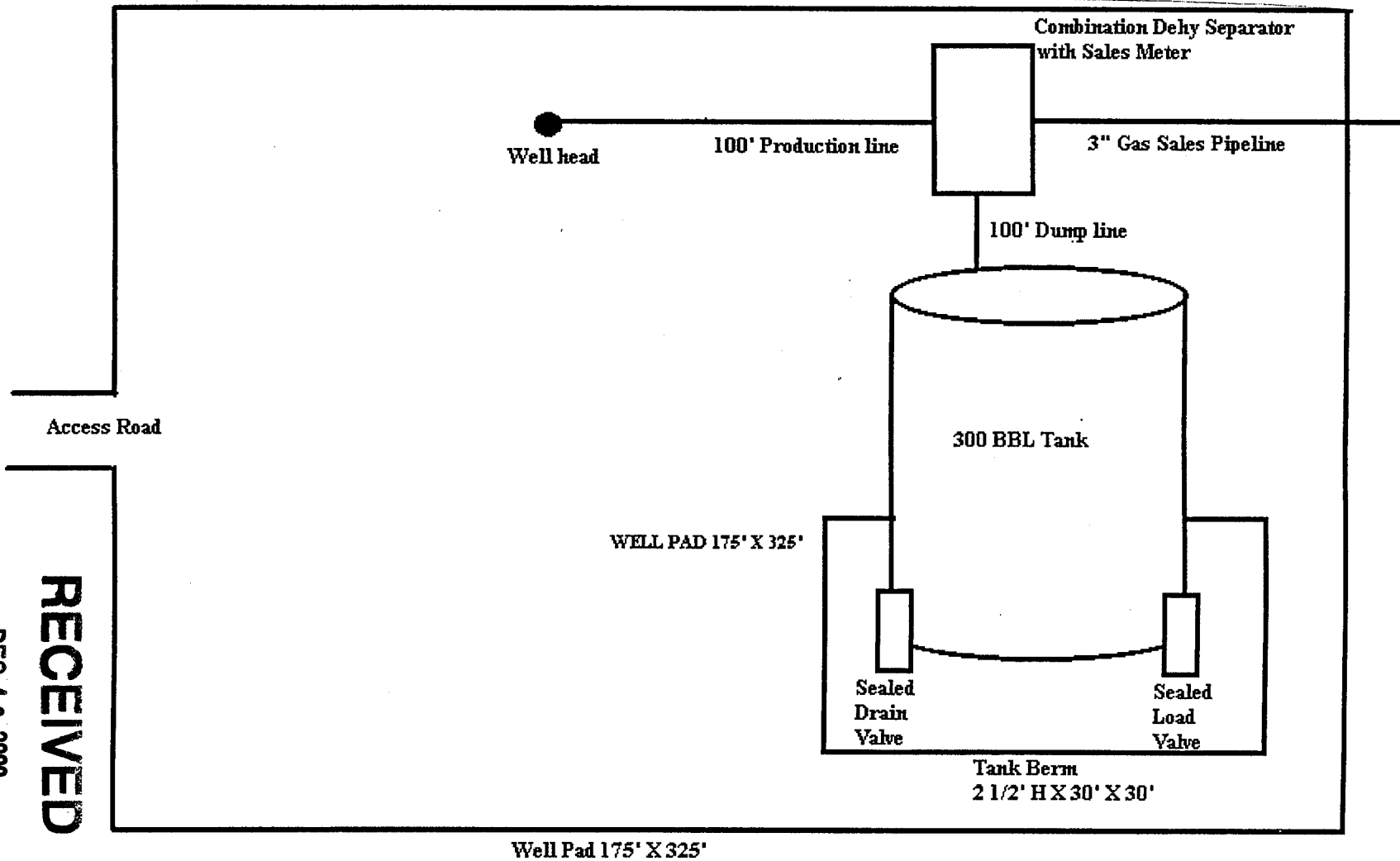
**DIVISION OF  
OIL, GAS AND MINING**

**SITE FACILITY DIAGRAM**  
**NORTH DUCK CREEK 133-31**  
**SE/NE, SEC. 31, T8S, R21E**  
**UINTAH COUNTY, UTAH**  
**LEASE NO. U-24230**  
**UTE INDIAN TRIBE LANDS**



N

(Site Security Plan is on file at EOG Resources, Inc.'s Vernal Office)



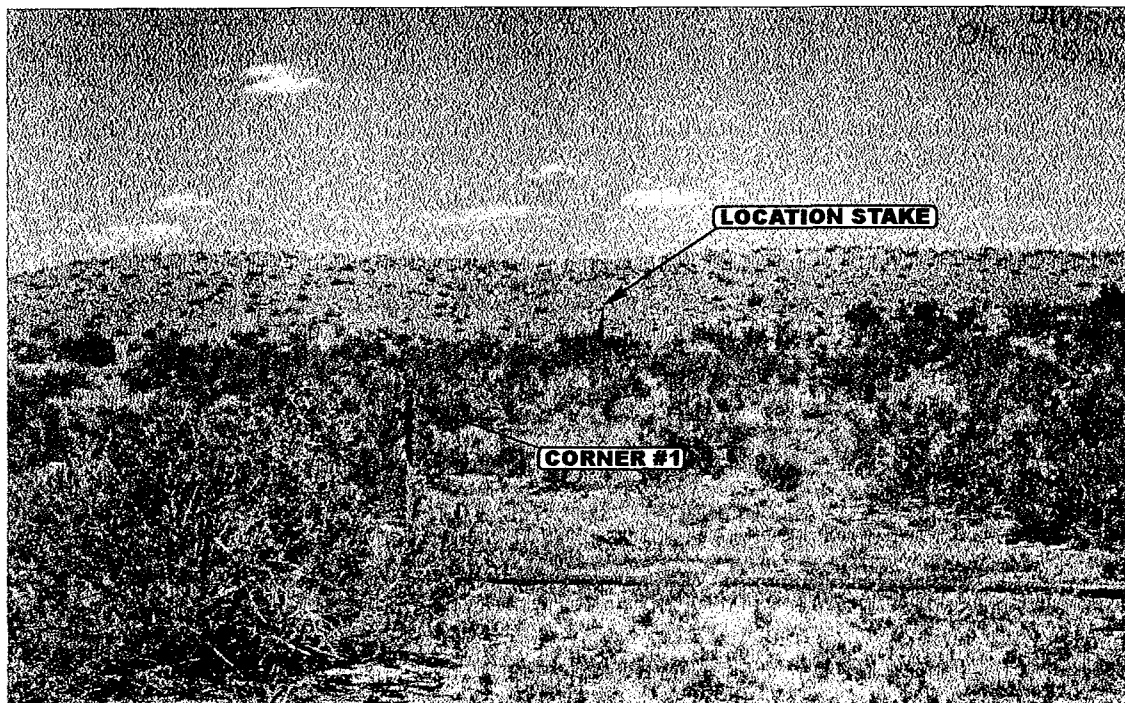
**RECEIVED**

DEC 18 2000

DIVISION OF  
OIL, GAS AND MINING

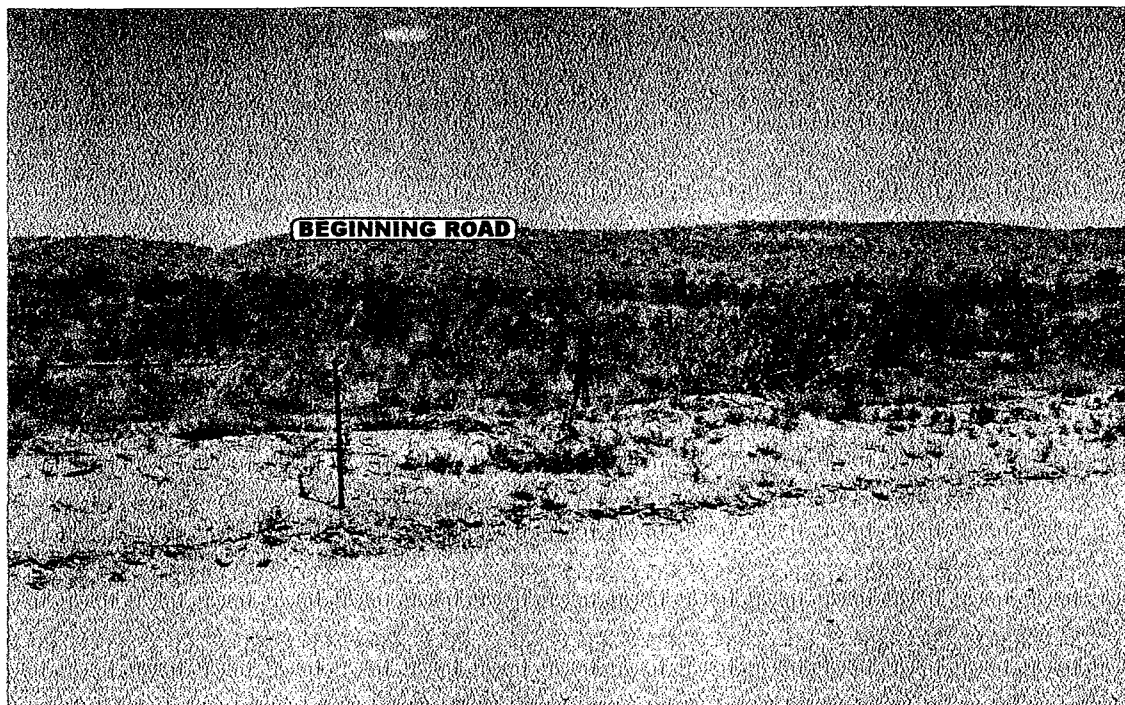
**EOG RESOURCES, INC.**  
**NORTH DUCK CREEK #133-31**  
**LOCATED IN UTAH COUNTY, UTAH**  
**SECTION 31, T8S, R21E, S.L.B.&M.**

PROCESSED  
DATE: 12 2000  
TOP  
OF  
MINING



**PHOTO: VIEW FROM CORNER #1 TO LOCATION STAKE**

**CAMERA ANGLE: NORTHERLY**



**PHOTO: VIEW FROM BEGINNING OF PROPOSED ROAD**

**CAMERA ANGLE: NORTHEASTERLY**



**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

- Since 1964 -

LOCATION PHOTOS		6	2	00	PHOTO
		MONTH	DAY	YEAR	
TAKEN BY: D.K.	DRAWN BY: J.L.G.	REVISED: 00-00-00			

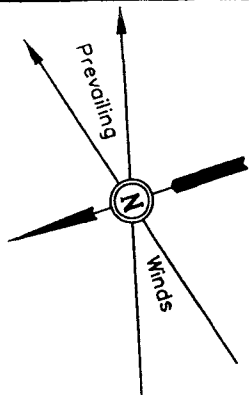
# EOG RESOURCES, INC.

LOCATION LAYOUT FOR  
NORTH DUCK CREEK #133-31  
SECTION 31, T8S, R21E, S.L.B.&M.  
1882' FNL 467' FEL

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DIVISION OF  
LAND SURVEYING



SCALE: 1" = 50'  
DATE: 6-12-00  
Drawn By: D.COX



Approx.  
Top of  
Cut Slope

NOTE:  
Flare Pit is to  
be located a min.  
of 100' from the  
Well Head.

C-4.1'  
El. 83.5'

C-0.8'  
El. 80.2'

F-3.9'  
El. 75.5'

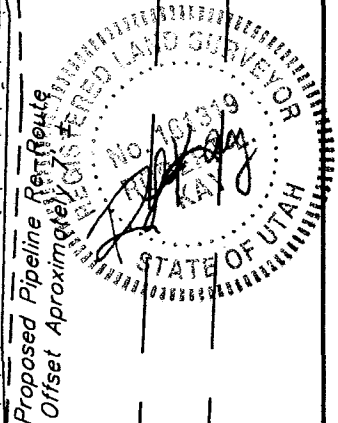
NOTE:  
Earthwork Calculations Require  
a Fill of 1.1' @ the Location  
Stake For Balance. All Fill is  
to be Compacted to a Minimum  
of 95% of the Maximum Dry  
Density Obtained by AASHTO  
Method t-99.

Approx.  
Toe of  
Fill Slope

Sta. 3+25

Existing Road

Sta. 1+50



Sta. 0+00

F-4.4'  
El. 75.0'

Proposed Access  
Road

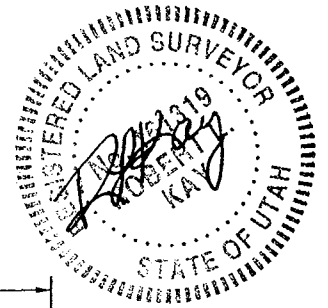
Elev. Ungraded Ground at Location Stake = 4678.3'  
Elev. Graded Ground at Location Stake = 4679.4'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

# EOG RESOURCES, INC.

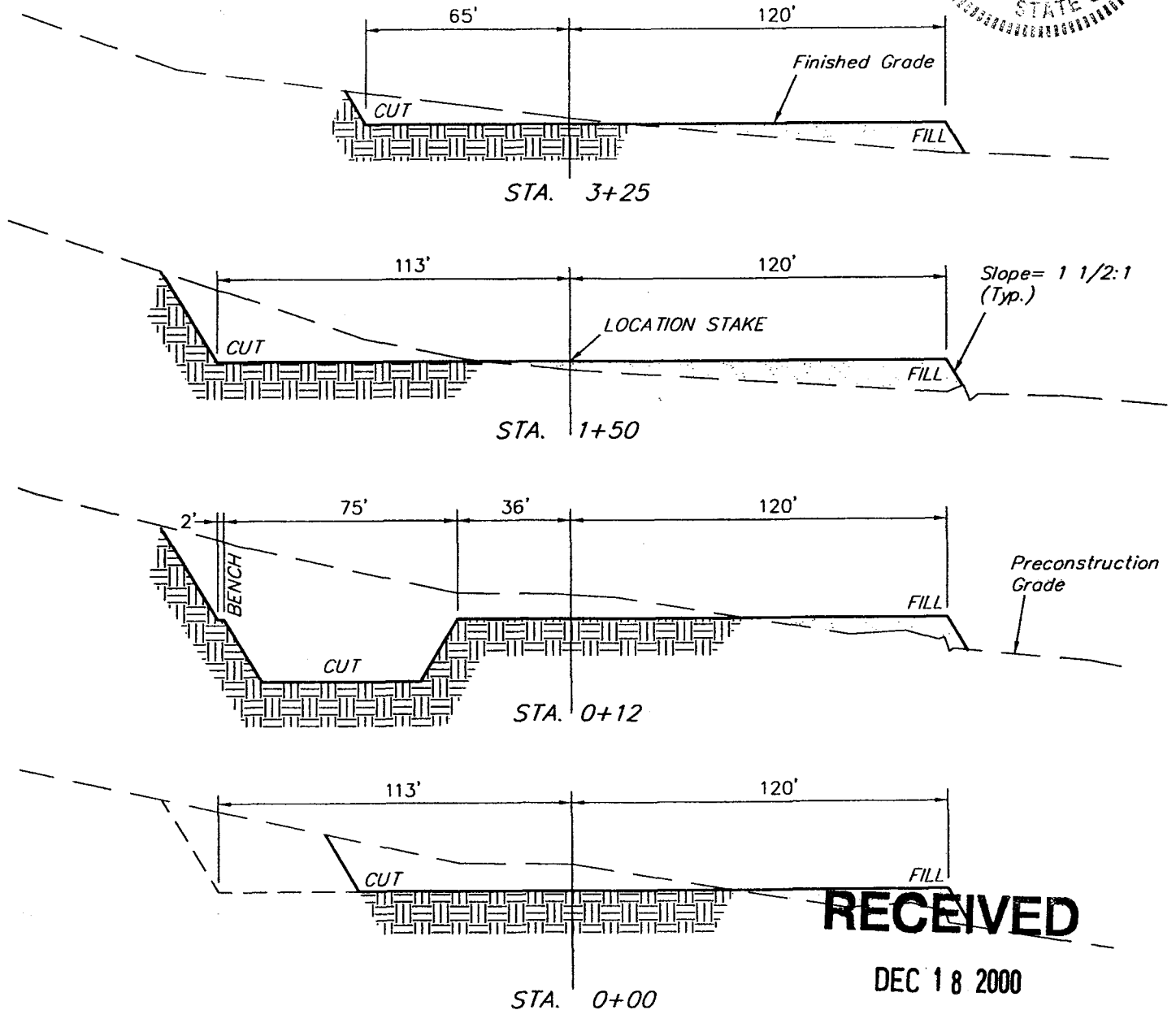
## TYPICAL CROSS SECTIONS FOR

NORTH DUCK CREEK #133-31  
SECTION 31, T8S, R21E, S.L.B.&M.  
1882' FNL 467' FEL



1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 6-12-00  
Drawn By: D.COX



**RECEIVED**

DEC 18 2000

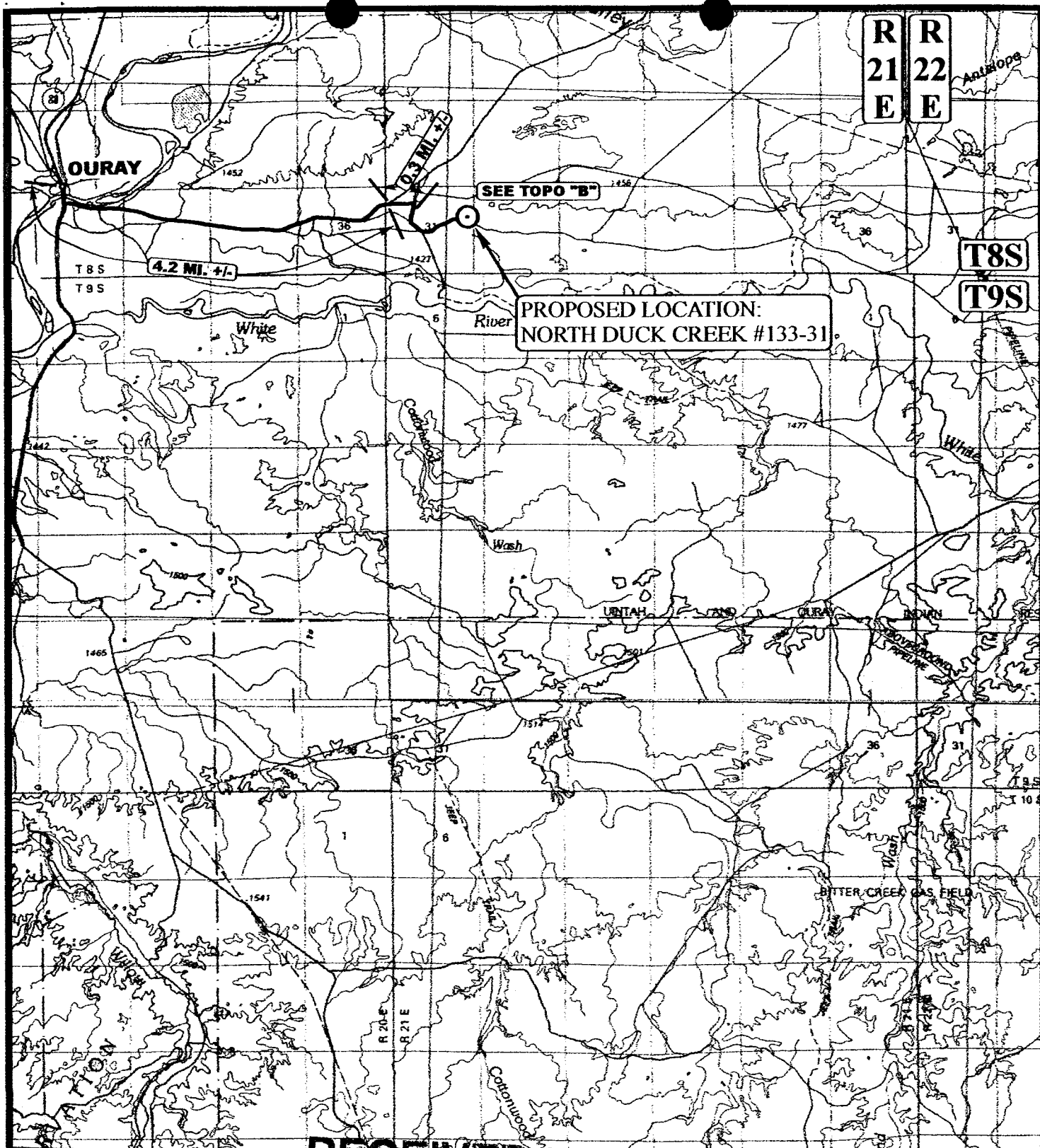
DIVISION OF  
OIL, GAS AND MINING

### APPROXIMATE YARDAGES

(12") Topsoil Stripping = 2,860 Cu. Yds.  
Remaining Location = 5,880 Cu. Yds.  
TOTAL CUT = 8,740 CU.YDS.  
FILL = 4,380 CU.YDS.

EXCESS MATERIAL AFTER  
5% COMPACTION = 4,130 Cu. Yds.  
Topsoil & Pit Backfill  
(1/2 Pit Vol.) = 4,130 Cu. Yds.  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017



# LEGEND:

⊙ PROPOSED LOCATION

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DIVISION OF



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

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N



## EOG RESOURCES, INC.

NORTH DUCK CREEK #133-31  
SECTION 31, T8S, R21E, S.L.B.&M.  
1882' FNL 467' FEL

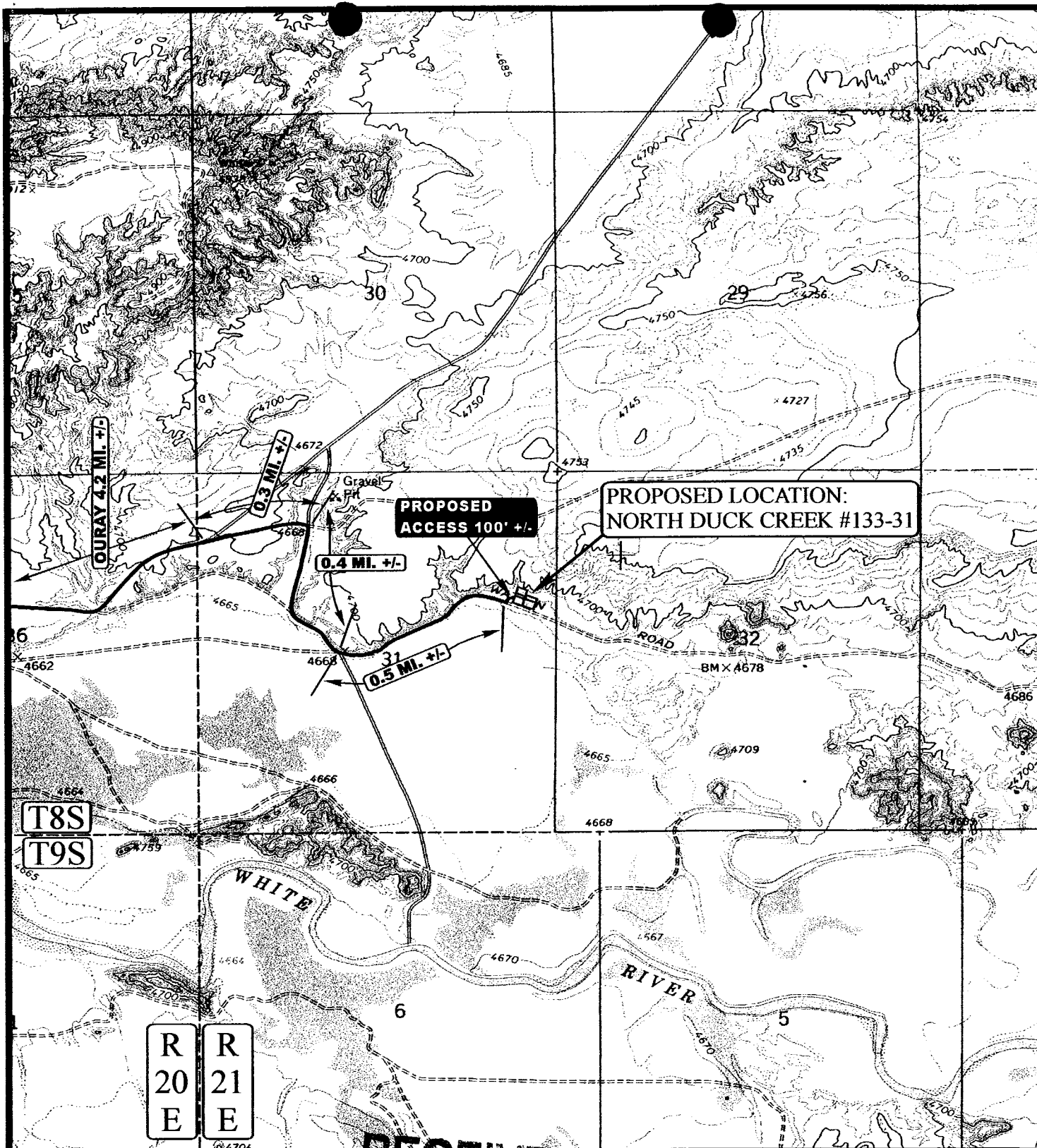
TOPOGRAPHIC  
MAP

6 2 00  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: JLG. REVISED: 00-00-00

A

TOPO



LEGEND:

--- PROPOSED ACCESS ROAD  
 --- EXISTING ROAD

**RECEIVED**

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DIVISION OF

OIL, GAS AND MINING

EOG RESOURCES, INC.

NORTH DUCK CREEK #133-31  
 SECTION 31, T8S, R21E, S.L.B.&M.  
 1882' FNL 467' FEL

**U  
E  
L  
S**

Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

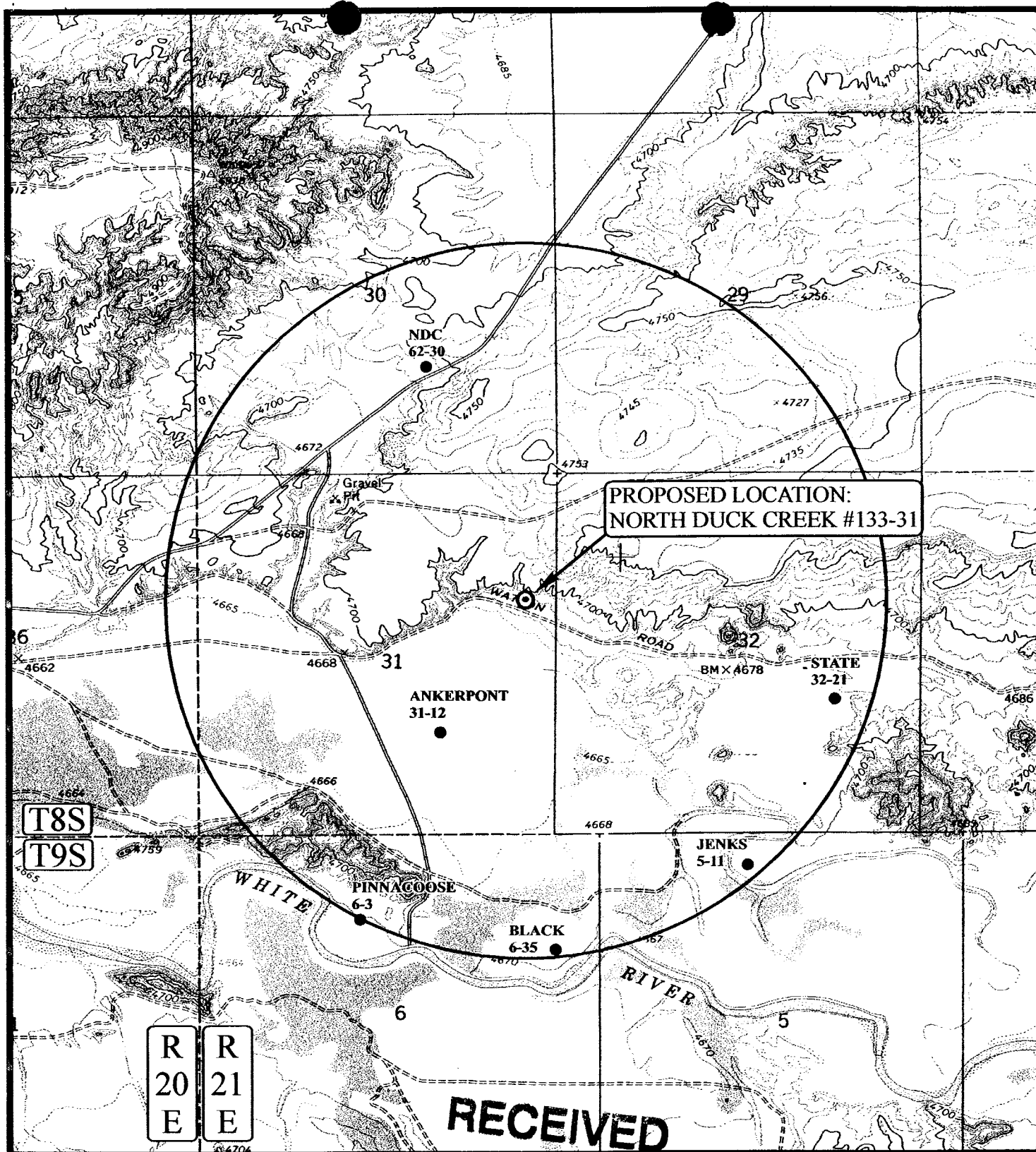
**TOPOGRAPHIC  
 MAP**

**6 1 00**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00

**B**  
 TOPO





# LEGEND:

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- ⬮ SHUT IN WELLS
- ⊗ WATER WELLS
- ⬮ ABANDONED WELLS
- ⬮ TEMPORARILY ABANDONED

DEC 18 2000

EOG RESOURCES, INC.

NORTH DUCK CREEK #133-31

DIVISION OF OIL, GAS AND MINING

SECTION 31, T8S, R21E, S.L.B.&M. 1882' FNL 467' FEL

UEIS

Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

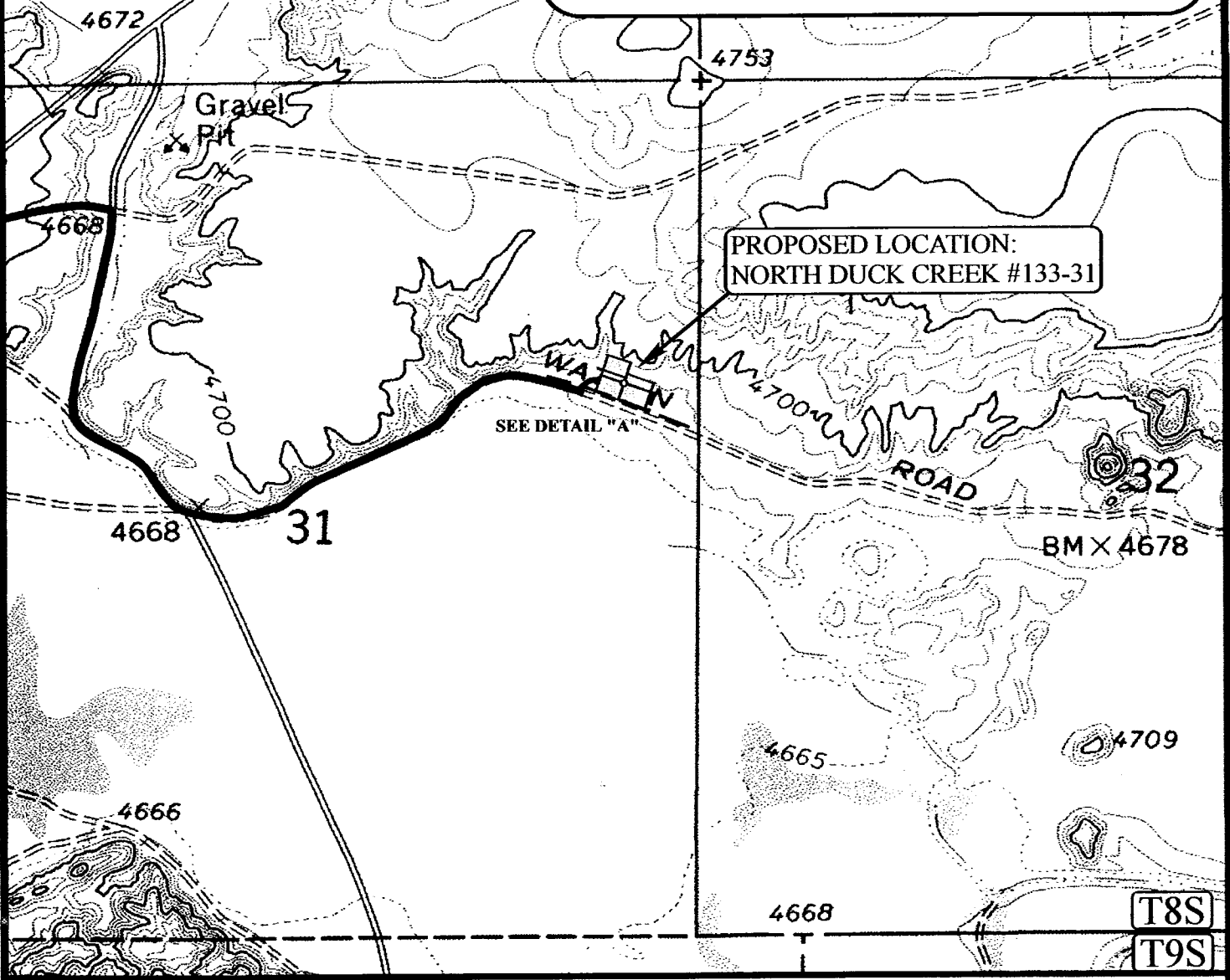
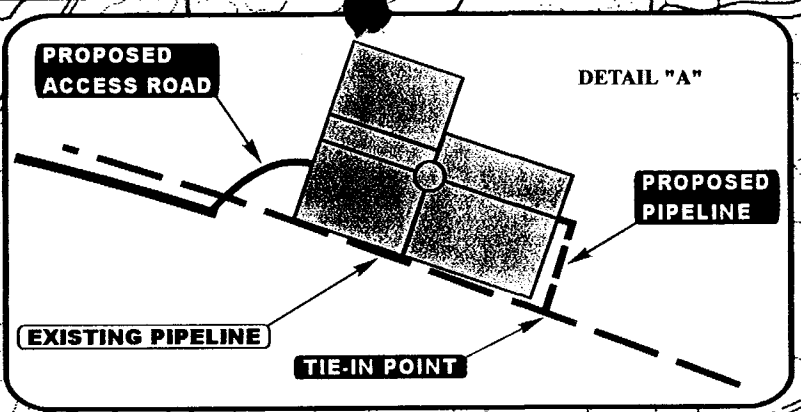
6 1 00  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00

C  
TOPO



R  
21  
E



APPROXIMATE TOTAL PIPELINE DISTANCE = 130' +/-

LEGEND:

- EXISTING PIPELINE
- - - PROPOSED PIPELINE
- PROPOSED ACCESS

RECEIVED

DEC 18 2000

DIVISION OF

UTAH GAS AND MINING

EOG RESOURCES, INC.

NORTH DUCK CREEK #133-31  
SECTION 31, T8S, R21E, S.L.B.&M.  
1882' FNL 467' FEL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

6 1 00  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.L.G. REVISED: 00-00-00

D  
TOPO

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 12/18/2000

API NO. ASSIGNED: 43-047-33827

WELL NAME: N DUCK CREEK 133-31

OPERATOR: EOG RESOURCES INC ( N9550 )

CONTACT: ED TROTTER, AGENT

PHONE NUMBER: 435-789-4120

PROPOSED LOCATION:

SENE 31 080S 210E

SURFACE: 1882 FNL 0467 FEL

BOTTOM: 1882 FNL 0467 FEL

UINTAH

NATURAL BUTTES ( 630 )

LEASE TYPE: 1-Federal

LEASE NUMBER: U-24230

SURFACE OWNER: 2-Indian

PROPOSED FORMATION: WSTC

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. NM-2308 )  
☒ Potash (Y/N)  
☒ Oil Shale (Y/N) \*190-5 (B) or 190-3  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)

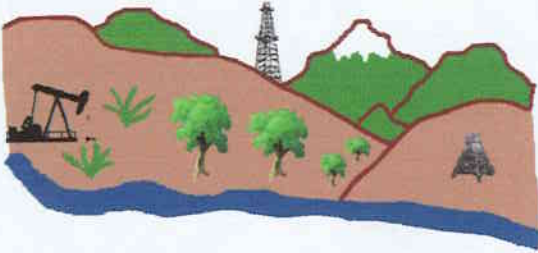
LOCATION AND SITING:

☐ R649-2-3. Unit  
☐ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
☐ R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 173-16  
Eff Date: 1-13-2000  
Siting: 460' fr. Qtr/Qtr & 920' between wells.  
☐ R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

① FEDERAL APPROVAL



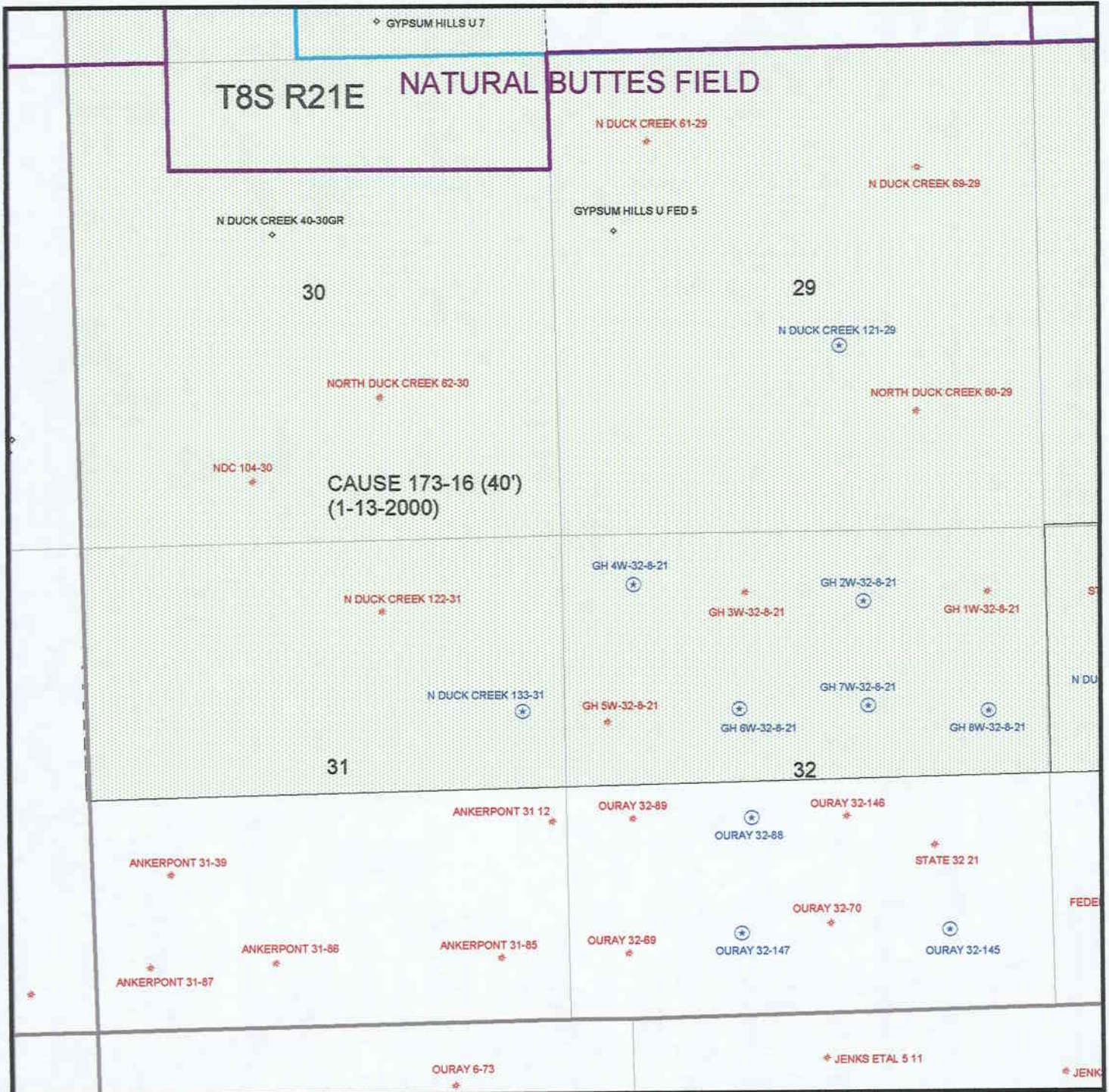
Utah Oil Gas and Mining

OPERATOR: EOG RESOURCES INC (N9550)

FIELD: NATURAL BUTTES (630)

SEC. 31, T8S, R21E,

COUNTY: UINTAH CAUSE: 173-16





State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

801-538-5340

801-359-3940 (Fax)

801-538-7223 (TDD)

December 26, 2000

EOG Resources, Inc.  
PO Box 815  
Vernal, UT 84078

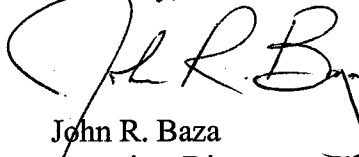
Re: North Duck Creek 133-31 Well, 1882' FNL, 467' FEL, SE NE, Sec. 31, T. 8 South,  
R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-33827.

Sincerely,



John R. Baza  
Associate Director

er

Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** EOG Resources, Inc.  
**Well Name & Number** North Duck Creek 133-31  
**API Number:** 43-047-33827  
**Lease:** U-24230

**Location:** SE NE      **Sec.** 31      **T.** 8 South      **R.** 21 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK  
**DRILL** ☒ **DEEPEN** ☐

b. TYPE OF WELL  
Oil ☐ Gas ☒ Other ☐  
Well ☐ Well ☒ Zone ☐ Zone ☐

2. Name of Operator  
**EOG RESOURCES, INC.**

3. Address and Telephone Number  
**P.O. BOX 1815, VERNAL, UT 84078 (435)789-0790**

4. Location of Well (Report location clearly and in accordance with any State requirements)  
At surface  
**1882' FNL & 467' FEL SE/NE**  
At proposed prod. Zone  
**4.5 MILES SOUTHEAST OF FORT DUCHESNE, UTAH**

15. Distance from proposed location to nearest property or lease line, ft.  
**467'**

16. No. of acres in lease  
**1555.87**

18. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.

19. Proposed depth  
**7360'**

21. Elevations (show whether DF, RT, GR, etc.)  
**4679.4 FEET GRADED GROUND**

22. Approx. date work will start  
**JANUARY 2001**

5. Lease designation and serial number  
**U-24230**

6. If Indian, Allottee or Tribe name  
**UTE INDIAN TRIBE**

7. Unit Agreement Name

8. Farm or lease name, well no.  
**NORTH DUCK CREEK**

9. API Well No.  
**NORTH DUCK CREEK 133-31**

10. Field and pool, or wildcat  
**NORTH DUCK CREEK**

11. Sec., T., R., M., or BLK. and survey or area  
**SEC. 31, T8S, R21E**

12. County or parish  
**UINTAH**

13. State  
**UTAH**

17. No. of acres assigned to this well

20. Rotary or cable tools  
**ROTARY**

PROPOSED CASING AND CEMENTING PROGRAM				QUANTITY OF CEMENT
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	
11"	8 5/8"	24#	200' - 220'	100-150 SX CLASS "G" + 2%
or 12 1/4"	9 5/8"	32.30#	200 - 220'	CaCl2 + 1/4 #/SX CELLOFLAKE.
7 7/8"	4 1/2"	10.50#	7360'	50/50 POXMIX + 2% GEL + 10%

SALT TO 400' ABOVE ALL ZONES OF INTEREST (+10% EXCESS).  
LIGHT CEMENT (11PPG+) +  
LCM TO 200' ABOVE OIL SHALE  
OR FRESH WATER INTERVALS  
(+ 5% EXCESS).

SEE ATTACHMENTS FOR:

8 POINT PLAN  
BOP SCHEMATIC  
SURFACE USE AND OPERATING PLAN  
LOCATION PLAT  
LOCATION LAYOUT  
TOPOGRAPHIC MAPS "A", "B", AND "C"  
GAS SALES PIPELINE—MAP "D"  
FACILITY DIAGRAM

EOG RESOURCES, INC. WILL BE THE DESIGNATED  
OPERATOR OF THE SUBJECT WELL UNDER  
BOND #NM 2308

Pc: UTAH DIVISION OF OIL, GAS, AND MINING  
BUREAU OF INDIAN AFFAIRS

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED [Signature] TITLE Agent DATE 12-7-2000

(This space for Federal or State office use)

NOTICE OF APPROVAL

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_  
APPROVED BY [Signature] TITLE Assistant Field Manager DATE 1/18/01  
Mineral Resources

CONDITIONS OF APPROVAL ATTACHED



CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: EOG Resources Inc.

Well Name & Number: North Duck Creek 133-31

API Number: 43-047-33827

Lease Number: U - 24230

Location: SENE Sec. 31 T.08S R. 21E

Agreement: N/A

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **3M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

#### 3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint. Surface casing setting depths are based on ground level elevations only.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at 275 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.



4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor proof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Ed Forsman (435) 789-7077 (HOME) (435) 646-1685 (PAGER)  
Petroleum Engineer

Kirk Fleetwood  
Petroleum Engineer

Jerry Kenczka (435) 781-1190 (HOME) (435) 646-1676 (PAGER)  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

## SURFACE CONDITIONS OF APPROVAL

At the North Duck Creek 133-31 well, along the north side of the well pad an avoidance area will be provided by constructing a fence or by providing a 10 to 20 foot buffer for the protection of T&E Species.

The Ute Tribe Energy and Mineral Department is to be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office days are Monday through Thursday. A Tribal Technician is to routinely monitor construction. For all monitoring that is to exceed Tribal Technician regular working hours, EOG Resources shall make arrangements with the Ute Energy and Minerals Department.

For any deviations of submitted APD's and ROW applications, EOG Resources Inc. will notify the Ute Tribe and Bureau of Indian Affairs in writing and will receive written authorization of such changes. Without authorization, EOG Resources Inc. understands they will be subject to fines and penalties.

A 30 foot rights-of-way shall be granted for the pipeline and a 30 foot rights-of way shall be granted for the access roads.

EOG Resources Inc. will assure the Ute Tribe that any/all contractors and subcontractors have acquired a Current Tribal Business License and have "Appropriate current Access Permits" prior to construction. Contractors and subcontractors will have these permits in vehicles at all times.

All EOG Resources employees and/or authorized personnel (subcontractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.

Berms, diversion ditches, cattle guards and culverts are to be installed and constructed where required.

Road base gravel will be used where sandy soils make travel and drillsite operations difficult to reduce hazards for access and operations.

Production waters shall not be used to wet down roads for dust control.

EOG Resources will implement "Safety and Emergency Plan." EOG Resources will ensure its compliance.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined and approved, and to the existing roadways and/or evaluated access routes.

All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.

The personnel from the Ute Tribe Energy & Mineral Department shall be consulted if cultural remains (including paleontology fossils) from subsurface deposits are exposed or identified during construction. All construction will cease. Prior to commencing constructing in the area where cultural resources are exposed the operator must obtain authorization from the BIA and the Ute Tribal Department of Cultural Rights and Protection.

Upon completion of construction of the rights-of-way, EOG Resources Inc. will notify the Ute Tribe Energy & Minerals Resources Department. This will be done so that a Tribal Technician can verify Affidavit of Completions.

Before the site is abandoned, the company will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

EOG Resources will avoid disturbances to hookless cactus plants. Furthermore, EOG shall also fence the north side of the well pad to provide an adequate avoidance area for the protection of the T&E Species plants.

Soil erosion will be mitigated by reseeding all disturbed areas.

Reserve pits will be lined with impervious synthetic liners. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the pits are backfilled, the surplus oil and mud etc. will be buried a minimum depth of 3.0 feet below the surface of the soil.

A closed production system will be used. Production fluids will be contained in leak proof tanks. Low profile tanks may be used to minimize problems with irrigation systems. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

Although the access road right of way is 30 feet wide, access roads shall have constructed travel width limited to 18 feet, except as granted for sharp curves, where intersections with other roads are required, or where deep cuts and fills are required for road construction.

Surface pipelines will be constructed to lay on the soil surface, and the ROW for the pipeline will not be bladed or cleared of vegetation without site specific authorization from BIA.

Where surface pipelines do not parallel roads but cross country between stations the line shall either be welded in place at a welding station located at the wellsite or on roads near the flowline right of way and then dragged into place with a suitable piece of equipment so it will not destroy the natural vegetation. If the flowline doesn't follow existing and APD proposed new access roads then traffic shall be restricted along pipeline ROWs so that they will not be used as an access road.

Buried flowlines shall be a minimum of three feet below the surface. After the construction of the pipeline is completed the disturbed area of the ROW shall be contoured to blend into the natural landscape, and it shall be reseeded with desirable vegetation. Between September 15 and November 1 of the year following pipeline construction of the buried line all disturbed areas shall be reseeded with perennial vegetation according to BIA, or to Ute Tribe specifications.

EOG Resources employees, representatives, and subcontractors shall not carry firearms on their person or in their vehicles while working on the Uintah and Ouray Indian Reservation.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM COVERED  
Budget Item No. 1004-0135  
Expires September 30, 1990

CONFIDENTIAL

**SUNDRY NOTICE AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT --" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

☐ Oil WELL ☒ Gas Well ☐ Other

2. Name of Operator

**EOG Resources, Inc.**

3. Address and Telephone No.

**P.O. BOX 250, BIG PINEY, WY 83113 (307) 276-3331**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**1882' FNL - 467' FEL (SE/NE)  
SECTION 31, T8S, R21E**

5. Lease Designation and Serial No.

**U 24230**

6. If Indian, Allottee or Tribe Name

7. If Unit or C.A., Agreement Designation

8. Well Name and No.

**NORTH DUCK CREEK 133-31**

9. API Well No.

**43-047-33827**

10. Field and Pool or Exploratory Area

**DUCK CREEK/WASATCH**

11. County State

**UINTAH, UTAH**

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ NOTICE OF INTENT  
☒ SUBSEQUENT REPORT  
☐ FINAL ABANDONMENT NOTICE

TYPE OF ACTION

<input type="checkbox"/>	ABANDONMENT	<input type="checkbox"/>	CHANGE OF PLANS
<input type="checkbox"/>	RECOMPLETION	<input type="checkbox"/>	NEW CONSTRUCTION
<input type="checkbox"/>	PLUGGING BACK	<input type="checkbox"/>	NON-ROUTINE FRACTURING
<input type="checkbox"/>	CASING REPAIR	<input type="checkbox"/>	WATER SHUT-OFF
<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>	CONVERSION TO INJECTION
<input checked="" type="checkbox"/>	OTHER	<input type="checkbox"/>	SPUD

(Note: Report results of multiple completion on Well Completions  
or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work if well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

**EOG Resources, Inc. spud 12-1/4" surface hole at the subject location 2/25/2001. The contractor was Dall Cook's Air Drilling. Ed Forsman of the Vernal BLM District office and Carol Daniels of the Utah Division of Oil, Gas & Mining were notified of spud 2/25/2001.**

RECEIVED

MAR 08 2001

DIVISION OF  
OIL, GAS AND MINING

\*NOTE: EOG Resources, Inc. will be using Nationwide Bond #NM 2308

14. I hereby certify that the foregoing is true and correct

SIGNED

*Daty Carlson*

TITLE **Regulatory Analyst**

DATE **3/05/2001**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SEC.	TP	RG			
A	99999	13095	33800 43-047-3880	NORTH DUCK CREEK 132-34	NW/NE	34	8S	21E	UINTAH	3/16/2001	3-16-01
1 COMMENTS: 4-23-01 CONFIDENTIAL											
A	99999	13096	43-047-33819	DUCK CREEK 75-4	SE/SW	4	9S	20E	UINTAH	2/24/2001	2-24-01
2 COMMENTS: 4-23-01 CONFIDENTIAL											
A	99999	13097	43-047-33822	NORTH DUCK CREEK 101-25	NW/SW	25	8S	21E	UINTAH	2/28/2001	2-28-01
3 COMMENTS: 4-23-01 CONFIDENTIAL											
A B	99999	13098	43-047-33827	NORTH DUCK CREEK 133-31	SE/NE	31	8S	21E	UINTAH	2/25/2001	2-25-01
4 COMMENTS: 4-23-01 CONFIDENTIAL											
A B	99999	13099	43-047-33829	NORTH DUCK CREEK 123-33	SW/NW	33	8S	21E	UINTAH	3/12/2001	3-12-01
5 COMMENTS: 4-23-01 CONFIDENTIAL											

ACTIONS CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

STATE OF UTAH

Katy Carlson  
Signature  
Regulatory Analyst  
Title  
Date  
4/23/2001  
Phone No. (307) 276-3331

OPERATOR ACCT. NO. N

**CONFIDENTIAL**  
Expires August 31, 1985

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME UTE INDIAN TRIBE	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RES. <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR EOG Resources, Inc.		8. FARM OR LEASE NAME NORTH DUCK CREEK	
3. ADDRESS OF OPERATOR P.O. BOX 250 BIG PINEY, WYOMING 83113		9. WELL NO. 133-31	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1882' FNL - 467' FEL (SE/NE) At top prod. interval reported below SAME At total depth SAME		10. FIELD AND POOL, OR WILDCAT DUCK CREEK/WASATCH	
15. DATE SPUDDED 2/25/2001		11. SEC., T., R., M., OR BLOCK AND SURVEY SECTION 31, T8S, R21E	
16. DATE T.D. REACHED 4/06/2001		12. COUNTY OR PARISH UINTAH,	
17. DATE COMPL. (Ready to prod.) 5/03/2001		13. STATE UTAH	
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4694' KB		14. PERMIT NO. 43-047-33827	
19. ELEV. CASINGHEAD 4679' PREP. GL.		DATE PERMIT ISSUED 12/26/2000	
20. TOTAL DEPTH, MD & TVD 7300'		21. PLUG, BACK T.D., MD & TVD 7378'	
22. IF MULTIPLE COMPLETIONS, HOW MANY? 1		23. ROTARY TOOLS ROTARY	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)* WASATCH 6396' - 7159'		25. WAS DIRECTIONAL SURVEY MADE? NO	
26. TYPE ELECTRIC AND OTHER LOGS RUN Dipole Sonic Imager, Compensated Neutron, GR & Cement Bond Log, Collar Locator, GR - 4-23-01		27. WAS WELL CORED? NO	

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24.0# J-55	238'	12-1/4"	125 sx Class "G" cement.	NONE
4-1/2"	10.5# J-55	7294'	7-7/8"	500 sx Hi-Lift & 700 sx 50/50 Pozmix.	NONE

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	7171'	

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
Wasatch	C-13	7097-99', 7145-50' & 7154-59'	w/3 SPF	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	C-9	6726-35' & 6796-6800'	w/3 SPF	7097-7159'	20,073 gals gelled water & 98,352# 20/40 sand.
	P-8 (Ph)	6396-6405'	w/3 SPF	6726-6800'	19,659 gals gelled water & 97,000# 20/40 sand.
				6396-6405'	14,795 gals gelled water & 58,600# 20/40 sand.

33.*		PRODUCTION				WELL STATUS (Producing or shut-in)	
DATE FIRST PRODUCTION 5/03/2001		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump) FLOWING				PRODUCING	
DATE OF TEST 5/07/2001	HOURS TESTED 24	CHOKE SIZE 18/64"	PROD'N FOR	OIL BBL. 0 BC	GAS-MCF. 838 MCFD	WATER-BBL. 20 BW	GAS-OIL RATIO
FLOW. TUBING PRESS. FTP 680 psig	CASING PRESSURE CP 850 psig	CALCULATED	OIL BBL. 0 BC	GAS-MCF. 838 MCFD	WATER-BBL. 20 BW	OIL GRAVITY-API (CORR.)	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD						TEST WITNESSED BY JAY ORR	
35. LIST OF ATTACHMENTS							

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED Daty Carbo TITLE Regulatory Analyst DATE 5/09/2001

\*(See Instructions and Spaces for Additional Data on Reverse Side)

## INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "nent": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## PRIVACY ACT

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by its application.

**AUTHORITY:** 30 U.S.C. 181 et. seq., 25 U.S.C. et. seq., 43 CFR 3160

**PRINCIPLE PURPOSE:** The information is to be used to evaluate the actual operations performed in the drilling of an oil or gas well on a Federal or Indian lease.

**ROUTINE USES:** (1) Evaluate the equipment and procedures used during the drilling of the well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this report and disclosure of hie information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling and producing oil and gas on Federal and Indian oil and gas leases.

This information will be used to analyze operations and compare equipment and procedures actually used with the proposals applied for.

Response to this request is mandatory once an oil or gas well is drilled.

SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; core intervals; and all annu-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			Green River		2110'	
			Base "M" Marker		5303'	
			"N" Limestone		5710'	
			Wasatch			
			Peter's Point		5710'	
			P-8		6386'	
			Chapita Wells		6450'	
			C-9		6702'	
			C-13		6702'	
			Buck Canyon		7134'	